



SEQUENCE LISTING

<110> STEINMAN, RALPH A
NUSSENZWEIG, MICHEL C
SWIGGARD, WILLIAM J
JIANG, WANPING

<120> IDENTIFICATION OF DEC, A RECEPTOR WITH
C-TYPE LECTIN DOMAINS, NUCLEIC ACIDS ENCODING DEC, AND USES
THEREOF

<130> 600-1-081CON

<140> 09/586,704

<141> 2000-06-05

<150> 08/381,528

<151> 1995-01-31

<160> 13

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 30

<212> PRT

<213> homo sapiens

<220>

<223> C terminal DEC-205

<400> 1

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| Arg | His | Arg | Leu | His | Leu | Ala | Gly | Phe | Ser | Ser | Val | Arg | Tyr | Ala | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Val | Asn | Glu | Asp | Glu | Ile | Met | Leu | Pro | Ser | Phe | His | Asp | | |
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<210> 2

<211> 25

<212> PRT

<213> mus musculus

<220>

<223> N terminal DEC-205

<400> 2

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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Gly | Lys | Cys | Ile | Gln | Pro | Leu | Phe | Asp | | | | | | | |
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 35 40 45
 Pro Leu Ser Asp Trp Val Val Ala Gln Asp Cys Ser Gly Thr Asn Asn
 50 55 60
 Met Leu Trp Lys Trp Val Ser Gln His Arg Leu Phe His Leu Glu Ser
 65 70 75 80
 Gln Lys Cys Leu Gly Leu Asp Ile Thr Lys Ala Thr Asp Asn Leu Arg
 85 90 95
 Met Phe Ser Cys Asp Ser Thr Val Met Leu Trp Trp Lys Cys Glu His
 100 105 110
 His Ser Leu Tyr Thr Ala Ala Gln Tyr Arg Leu Ala Leu Lys Asp Gly
 115 120 125
 Tyr Ala Val Ala Asn Thr Asn Thr Ser Asp Val Trp Lys Lys Gly Gly
 130 135 140
 Ser Glu Glu Asn Leu Cys Ala Gln Pro Tyr His Glu Ile Tyr Thr Arg
 145 150 155 160
 Asp Gly Asn Ser Tyr Gly Arg Pro Cys Glu Phe Pro Phe Leu Ile Gly
 165 170 175
 Glu Thr Trp Tyr His Asp Cys Ile His Asp Glu Asp His Ser Gly Pro
 180 185 190
 Trp Cys Ala Thr Thr Leu Ser Tyr Glu Tyr Asp Gln Lys Trp Gly Ile
 195 200 205
 Cys Leu Leu Pro Glu Ser Gly Cys Glu Gly Asn Trp Glu Lys Asn Glu
 210 215 220
 Gln Ile Gly Ser Cys Tyr Gln Phe Asn Asn Gln Glu Ile Leu Ser Trp
 225 230 235 240
 Lys Glu Ala Tyr Val Ser Cys Gln Asn Gln Gly Ala Asp Leu Leu Ser
 245 250 255
 Ile His Ser Ala Ala Glu Leu Ala Tyr Ile Thr Gly Lys Glu Asp Ile
 260 265 270
 Ala Arg Leu Val Trp Leu Gly Leu Asn Gln Leu Tyr Ser Ala Arg Gly
 275 280 285
 Trp Glu Trp Ser Asp Phe Arg Pro Leu Lys Phe Leu Asn Trp Asp Pro
 290 295 300
 Gly Thr Pro Val Ala Pro Val Ile Gly Gly Ser Ser Cys Ala Arg Met
 305 310 315 320
 Asp Thr Glu Ser Gly Leu Trp Gln Ser Val Ser Cys Glu Ser Gln Gln
 325 330 335
 Pro Tyr Val Cys Lys Lys Pro Leu Asn Asn Thr Leu Glu Leu Pro Asp
 340 345 350
 Val Trp Thr Tyr Thr Asp Thr His Cys His Val Gly Trp Leu Pro Asn
 355 360 365
 Asn Gly Phe Cys Tyr Leu Leu Ala Asn Glu Ser Ser Ser Trp Asp Ala
 370 375 380

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | His | Leu | Lys | Cys | Lys | Ala | Phe | Gly | Ala | Asp | Leu | Ile | Ser | Met | His |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Ser | Leu | Ala | Asp | Val | Glu | Val | Val | Val | Thr | Lys | Leu | His | Asn | Gly | Asp |
| | | | 405 | | | | | | 410 | | | | | 415 | |
| Val | Lys | Lys | Glu | Ile | Trp | Thr | Gly | Leu | Lys | Asn | Thr | Asn | Ser | Pro | Ala |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Leu | Phe | Gln | Trp | Ser | Asp | Gly | Thr | Glu | Val | Thr | Leu | Thr | Tyr | Trp | Asn |
| | | 435 | | | | | 440 | | | | | 445 | | | |
| Glu | Asn | Glu | Pro | Ser | Val | Pro | Phe | Asn | Lys | Thr | Pro | Asn | Cys | Val | Ser |
| | 450 | | | | | 455 | | | | | 460 | | | | |
| Tyr | Leu | Gly | Lys | Leu | Gly | Gln | Trp | Lys | Val | Gln | Ser | Cys | Glu | Lys | Lys |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| Leu | Arg | Tyr | Val | Cys | Lys | Lys | Lys | Gly | Glu | Ile | Thr | Lys | Asp | Ala | Glu |
| | | | | 485 | | | | | 490 | | | | | 495 | |
| Ser | Asp | Lys | Leu | Cys | Pro | Pro | Asp | Glu | Gly | Trp | Lys | Arg | His | Gly | Glu |
| | | | 500 | | | | | 505 | | | | | 510 | | |
| Thr | Cys | Tyr | Lys | Ile | Tyr | Glu | Lys | Glu | Ala | Pro | Phe | Gly | Thr | Asn | Cys |
| | | 515 | | | | | 520 | | | | | 525 | | | |
| Asn | Leu | Thr | Ile | Thr | Ser | Arg | Phe | Glu | Gln | Glu | Phe | Leu | Asn | Tyr | Met |
| | 530 | | | | | 535 | | | | | 540 | | | | |
| Met | Lys | Asn | Tyr | Asp | Lys | Ser | Leu | Arg | Lys | Tyr | Phe | Trp | Thr | Gly | Leu |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 |
| Arg | Asp | Pro | Asp | Ser | Arg | Gly | Glu | Tyr | Ser | Trp | Ala | Val | Ala | Gln | Gly |
| | | | | 565 | | | | | 570 | | | | | 575 | |
| Val | Lys | Gln | Ala | Val | Thr | Phe | Ser | Asn | Trp | Asn | Phe | Leu | Glu | Pro | Ala |
| | | | 580 | | | | | 585 | | | | | 590 | | |
| Ser | Pro | Gly | Gly | Cys | Val | Ala | Met | Ser | Thr | Gly | Lys | Thr | Leu | Gly | Lys |
| | | 595 | | | | | 600 | | | | | 605 | | | |
| Trp | Glu | Val | Lys | Asn | Cys | Arg | Ser | Phe | Arg | Ala | Leu | Ser | Ile | Cys | Lys |
| | 610 | | | | | 615 | | | | | 620 | | | | |
| Lys | Val | Ser | Glu | Pro | Gln | Glu | Pro | Glu | Glu | Ala | Ala | Pro | Lys | Pro | Asp |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 |
| Asp | Pro | Cys | Pro | Glu | Gly | Trp | His | Thr | Phe | Pro | Ser | Ser | Leu | Ser | Cys |
| | | | | 645 | | | | | 650 | | | | | 655 | |
| Tyr | Lys | Val | Phe | His | Ile | Glu | Arg | Ile | Val | Arg | Lys | Arg | Asn | Trp | Glu |
| | | | 660 | | | | | 665 | | | | | 670 | | |
| Glu | Ala | Glu | Arg | Phe | Cys | Gln | Ala | Leu | Gly | Ala | His | Leu | Pro | Ser | Phe |
| | | 675 | | | | | 680 | | | | | 685 | | | |
| Ser | Arg | Arg | Glu | Glu | Ile | Lys | Asp | Phe | Val | His | Leu | Leu | Lys | Asp | Gln |
| | 690 | | | | | 695 | | | | | 700 | | | | |
| Phe | Ser | Gly | Gln | Arg | Trp | Leu | Trp | Ile | Gly | Leu | Asn | Lys | Arg | Ser | Pro |
| 705 | | | | | 710 | | | | | 715 | | | | | 720 |
| Asp | Leu | Gln | Gly | Ser | Trp | Gln | Trp | Ser | Asp | Arg | Thr | Pro | Val | Ser | Ala |
| | | | | 725 | | | | | 730 | | | | | 735 | |
| Val | Met | Met | Glu | Pro | Glu | Phe | Gln | Gln | Asp | Phe | Asp | Ile | Arg | Asp | Cys |
| | | | 740 | | | | | 745 | | | | | 750 | | |
| Ala | Ala | Ile | Lys | Val | Leu | Asp | Val | Pro | Trp | Arg | Arg | Val | Trp | His | Leu |
| | 755 | | | | | | 760 | | | | | 765 | | | |
| Tyr | Glu | Asp | Lys | Asp | Tyr | Ala | Tyr | Trp | Lys | Pro | Phe | Ala | Cys | Asp | Ala |
| | 770 | | | | 775 | | | | | | 780 | | | | |
| Lys | Leu | Glu | Trp | Val | Cys | Gln | Ile | Pro | Lys | Gly | Ser | Thr | Pro | Gln | Met |
| 785 | | | | | 790 | | | | | 795 | | | | | 800 |
| Pro | Asp | Trp | Tyr | Asn | Pro | Glu | Arg | Thr | Gly | Ile | His | Gly | Pro | Pro | Val |
| | | | | 805 | | | | | 810 | | | | | 815 | |
| Ile | Ile | Glu | Gly | Ser | Glu | Tyr | Trp | Phe | Val | Ala | Asp | Pro | His | Leu | Asn |
| | | 820 | | | | | | 825 | | | | | 830 | | |
| Tyr | Glu | Glu | Ala | Val | Leu | Tyr | Cys | Ala | Ser | Asn | His | Ser | Phe | Leu | Ala |

| | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | 835 | | | | | 840 | | | | | 845 | | | | |
| Thr | Ile | Thr | Ser | Phe | Thr | Gly | Leu | Lys | Ala | Ile | Lys | Asn | Lys | Leu | Ala | |
| | 850 | | | | | 855 | | | | | 860 | | | | | |
| Asn | Ile | Ser | Gly | Glu | Glu | Gln | Lys | Trp | Trp | Val | Lys | Thr | Ser | Glu | Asn | |
| 865 | | | | | 870 | | | | | 875 | | | | | 880 | |
| Pro | Ile | Asp | Arg | Tyr | Phe | Leu | Gly | Ser | Arg | Arg | Arg | Leu | Trp | His | His | |
| | | | | 885 | | | | | 890 | | | | | 895 | | |
| Phe | Pro | Met | Thr | Phe | Gly | Asp | Glu | Cys | Leu | His | Met | Ser | Ala | Lys | Thr | |
| | | | 900 | | | | | 905 | | | | | 910 | | | |
| Trp | Leu | Val | Asp | Leu | Ser | Lys | Arg | Ala | Asp | Cys | Asn | Ala | Lys | Leu | Pro | |
| | | 915 | | | | | 920 | | | | | 925 | | | | |
| Phe | Ile | Cys | Glu | Arg | Tyr | Asn | Val | Ser | Ser | Leu | Glu | Lys | Tyr | Ser | Pro | |
| | 930 | | | | | 935 | | | | | 940 | | | | | |
| Asp | Pro | Ala | Ala | Lys | Val | Gln | Cys | Thr | Glu | Lys | Trp | Ile | Pro | Phe | Gln | |
| 945 | | | | | 950 | | | | | 955 | | | | | 960 | |
| Asn | Lys | Cys | Phe | Leu | Lys | Val | Asn | Ser | Gly | Pro | Val | Thr | Phe | Ser | Gln | |
| | | | | 965 | | | | | 970 | | | | | 975 | | |
| Ala | Ser | Gly | Ile | Cys | His | Ser | Tyr | Gly | Gly | Thr | Leu | Pro | Ser | Val | Leu | |
| | | | 980 | | | | | 985 | | | | | 990 | | | |
| Ser | Arg | Gly | Glu | Gln | Asp | Phe | Ile | Ile | Ser | Leu | Leu | Pro | Glu | Met | Glu | |
| | | 995 | | | | | 1000 | | | | | 1005 | | | | |
| Ala | Ser | Leu | Trp | Ile | Gly | Leu | Arg | Trp | Thr | Ala | Tyr | Glu | Arg | Ile | Asn | |
| | 1010 | | | | | 1015 | | | | | 1020 | | | | | |
| Arg | Trp | Thr | Asp | Asn | Arg | Glu | Leu | Thr | Tyr | Ser | Asn | Phe | His | Pro | Leu | |
| 1025 | | | | | 1030 | | | | | 1035 | | | | | 1040 | |
| Leu | Val | Gly | Arg | Arg | Leu | Ser | Ile | Pro | Thr | Asn | Phe | Phe | Asp | Asp | Glu | |
| | | | | 1045 | | | | | 1050 | | | | | 1055 | | |
| Ser | His | Phe | His | Cys | Ala | Leu | Ile | Leu | Asn | Leu | Lys | Lys | Ser | Pro | Leu | |
| | | | 1060 | | | | | 1065 | | | | | 1070 | | | |
| Thr | Gly | Thr | Trp | Asn | Phe | Thr | Ser | Cys | Ser | Glu | Arg | His | Ser | Leu | Ser | |
| | | 1075 | | | | | 1080 | | | | | 1085 | | | | |
| Leu | Cys | Gln | Lys | Tyr | Ser | Glu | Thr | Glu | Asp | Gly | Gln | Pro | Trp | Glu | Asn | |
| | 1090 | | | | | 1095 | | | | | 1100 | | | | | |
| Thr | Ser | Lys | Thr | Val | Lys | Tyr | Leu | Asn | Asn | Leu | Tyr | Lys | Ile | Ile | Ser | |
| 1105 | | | | | 1110 | | | | | 1115 | | | | | 1120 | |
| Lys | Pro | Leu | Thr | Trp | His | Gly | Ala | Leu | Lys | Glu | Cys | Met | Lys | Glu | Lys | |
| | | | | 1125 | | | | | 1130 | | | | | 1135 | | |
| Met | Arg | Leu | Val | Ser | Ile | Thr | Asp | Pro | Tyr | Gln | Gln | Ala | Phe | Leu | Ala | |
| | | | 1140 | | | | | 1145 | | | | | 1150 | | | |
| Val | Gln | Ala | Thr | Leu | Arg | Asn | Ser | Ser | Phe | Trp | Ile | Gly | Leu | Ser | Ser | |
| | | 1155 | | | | | 1160 | | | | | 1165 | | | | |
| Gln | Asp | Asp | Glu | Leu | Asn | Phe | Gly | Trp | Ser | Asp | Gly | Lys | Arg | Leu | Gln | |
| | 1170 | | | | | 1175 | | | | | 1180 | | | | | |
| Phe | Ser | Asn | Trp | Ala | Gly | Ser | Asn | Glu | Gln | Leu | Asp | Asp | Cys | Val | Ile | |
| 1185 | </ | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| Thr | Phe | Val | Val | Glu | Gln | Leu | Leu | Tyr | Phe | Asn | Tyr | Ile | Ala | Ser | Trp | | |
| | | | 1300 | | | | | 1305 | | | | | 1310 | | | | |
| Val | Met | Leu | Gly | Ile | Thr | Tyr | Glu | Asn | Asn | Ser | Leu | Met | Trp | Phe | Asp | | |
| | | 1315 | | | | | 1320 | | | | | 1325 | | | | | |
| Lys | Thr | Ala | Leu | Ser | Tyr | Thr | His | Trp | Arg | Thr | Gly | Arg | Pro | Thr | Val | | |
| | 1330 | | | | | 1335 | | | | | 1340 | | | | | | |
| Lys | Asn | Gly | Lys | Phe | Leu | Ala | Gly | Leu | Ser | Thr | Asp | Gly | Phe | Trp | Asp | | |
| 1345 | | | | | 1350 | | | | | 1355 | | | | | 1360 | | |
| Ile | Gln | Ser | Phe | Asn | Val | Ile | Glu | Glu | Thr | Leu | His | Phe | Tyr | Gln | His | | |
| | | | | 1365 | | | | | 1370 | | | | | 1375 | | | |
| Ser | Ile | Ser | Ala | Cys | Lys | Ile | Glu | Met | Val | Asp | Tyr | Glu | Asp | Lys | His | | |
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| Asn | Gly | Thr | Leu | Pro | Gln | Phe | Ile | Pro | Tyr | Lys | Asp | Gly | Val | Tyr | Ser | | |
| | 1395 | | | | | | 1400 | | | | | 1405 | | | | | |
| Val | Ile | Gln | Lys | Lys | Val | Thr | Trp | Tyr | Glu | Ala | Leu | Asn | Ala | Cys | Ser | | |
| | 1410 | | | | | 1415 | | | | | 1420 | | | | | | |
| Gln | Ser | Gly | Gly | Glu | Leu | Ala | Ser | Val | His | Asn | Pro | Asn | Gly | Lys | Leu | | |
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| Phe | Leu | Glu | Asp | Ile | Val | Asn | Arg | Asp | Gly | Phe | Pro | Leu | Trp | Val | Gly | | |
| | | | | 1445 | | | | | 1450 | | | | 1455 | | | | |
| Leu | Ser | Ser | His | Asp | Gly | Ser | Glu | Ser | Ser | Phe | Glu | Trp | Ser | Asp | Gly | | |
| | | | 1460 | | | | 1465 | | | | 1470 | | | | | | |
| Arg | Ala | Phe | Asp | Tyr | Val | Pro | Trp | Gln | Ser | Leu | Gln | Ser | Pro | Gly | Asp | | |
| | 1475 | | | | | | 1480 | | | | 1485 | | | | | | |
| Cys | Val | Val | Leu | Tyr | Pro | Lys | Gly | Ile | Trp | Arg | Arg | Glu | Lys | Cys | Leu | | |
| | 1490 | | | | | 1495 | | | | 1500 | | | | | | | |
| Ser | Val | Lys | Asp | Gly | Ala | Ile | Cys | Tyr | Lys | Pro | Thr | Lys | Asp | Lys | Lys | | |
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| Leu | Ile | Phe | His | Val | Lys | Ser | Ser | Lys | Cys | Pro | Val | Ala | Lys | Arg | Asp | | |
| | | | | 1525 | | | | | 1530 | | | | 1535 | | | | |
| Gly | Pro | Gln | Trp | Val | Gln | Tyr | Gly | Gly | His | Cys | Tyr | Ala | Ser | Asp | Gln | | |
| | 1540 | | | | | | 1545 | | | | | 1550 | | | | | |
| Val | Leu | His | Ser | Phe | Ser | Glu | Ala | Lys | Gln | Val | Cys | Gln | Glu | Leu | Asp | | |
| | 1555 | | | | | 1560 | | | | | 1565 | | | | | | |
| His | Ser | Ala | Thr | Val | Val | Thr | Ile | Ala | Asp | Glu | Asn | Glu | Asn | Lys | Phe | | |
| | 1570 | | | | | 1575 | | | | | 1580 | | | | | | |
| Val | Ser | Arg | Leu | Met | Arg | Glu | Asn | Tyr | Asn | Ile | Thr | Met | Arg | Val | Trp | | |
| 1585 | | | | | 1590 | | | | | 1595 | | | | | 1600 | | |
| Leu | Gly | Leu | Ser | Gln | His | Ser | Leu | Asp | Gln | Ser | Trp | Ser | Trp | Leu | Asp | | |
| | | | | 1605 | | | | | 1610 | | | | 1615 | | | | |
| Gly | Leu | Asp | Val | Thr | Phe | Val | Lys | Trp | Glu | Asn | Lys | Thr | Lys | Asp | Gly | | |
| | 1620 | | | | | | 1625 | | | | | 1630 | | | | | |
| Asp | Gly | Lys | Cys | Ser | Ile | Leu | Ile | Ala | Ser | Asn | Glu | Thr | Trp | Arg | Lys | | |
| | 1635 | | | | | 1640 | | | | | 1645 | | | | | | |
| Val | His | Cys | Ser | Arg | Gly | Tyr | Ala | Arg | Ala | Val | Cys | Lys | Ile | Pro | Leu | | |
| | 1650 | | | | 1655 | | | | | 1660 | | | | | | | |
| Ser | Pro | Asp | Tyr | Thr | Gly | Ile | Ala | Ile | Leu | Phe | Ala | Val | Leu | Cys | Leu | | |
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| Leu | Gly | Leu | Ile | Ser | Leu | Ala | Ile | Trp | Phe | Leu | Leu | Gln | Arg | Ser | His | | |
| | | | | 1685 | | | | | 1690 | | | | 1695 | | | | |
| Ile | Arg | Trp | Thr | Gly | Phe | Ser | Ser | Val | Arg | Tyr | Glu | His | Gly | Thr | Asn | | |
| | 1700 | | | | | | | 1705 | | | | 1710 | | | | | |
| Glu | Asp | Glu | Val | Met | Leu | Pro | Ser | Phe | His | Asp | | | | | | | |
| | 1715 | | | | | 1720 | | | | | | | | | | | |

<211> 1462
 <212> PRT
 <213> bos taurus

<220>
 <223> PLA2 receptor

<400> 4

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Leu | Leu | Ser | Leu | Ser | Leu | Leu | Leu | Leu | Leu | Gln | Val | Pro | |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Ala | Gly | Ser | Ala | Glu | Thr | Ala | Ala | Trp | Ala | Val | Thr | Pro | Glu | Arg | Leu |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Arg | Glu | Trp | Gln | Asp | Lys | Gly | Ile | Phe | Ile | Ile | Gln | Ser | Glu | Asn | Leu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Glu | Lys | Cys | Ile | Gln | Ala | Ser | Lys | Ser | Thr | Leu | Thr | Leu | Glu | Asn | Cys |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Lys | Pro | Pro | Asn | Lys | Tyr | Met | Leu | Trp | Lys | Trp | Val | Ser | Asn | His | Arg |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Phe | Asn | Ile | Gly | Gly | Ser | Gly | Cys | Leu | Gly | Leu | Asn | Val | Ser | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Pro | Glu | Gln | Pro | Leu | Ser | Ile | Tyr | Glu | Cys | Asp | Ser | Thr | His | Val | Ser |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Leu | Lys | Trp | His | Cys | Asn | Lys | Lys | Thr | Ile | Thr | Gly | Pro | Leu | Gln | Tyr |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Leu | Val | Gln | Val | Lys | Gln | Asp | Asn | Thr | Leu | Val | Ala | Ser | Arg | Lys | Tyr |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | His | Lys | Trp | Val | Ser | Tyr | Met | Ser | Gly | Gly | Gly | Gly | Ile | Cys | Asp |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Tyr | Leu | His | Lys | Asp | Leu | Tyr | Thr | Ile | Lys | Gly | Asn | Ala | His | Gly | Thr |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Pro | Cys | Met | Phe | Pro | Phe | Gln | Tyr | Asn | Gln | Gln | Trp | His | His | Glu | Cys |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Thr | Arg | Glu | Gly | Arg | Glu | Asp | Asn | Leu | Leu | Trp | Cys | Ala | Thr | Thr | Ser |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Arg | Tyr | Glu | Arg | Asp | Glu | Lys | Trp | Gly | Phe | Cys | Pro | Asp | Pro | Thr | Ser |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Thr | Glu | Val | Gly | Cys | Asp | Ala | Val | Trp | Glu | Lys | Asp | Leu | His | Ser | Arg |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Ile | Cys | Tyr | Gln | Phe | Asn | Leu | Leu | Ser | Ser | Leu | Ser | Trp | Ser | Glu | Ala |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| His | Ser | Ser | Cys | Gln | Met | Gln | Gly | Ala | Ala | Leu | Leu | Ser | Ile | Ala | Asp |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Glu | Thr | Glu | Glu | Asn | Phe | Val | Arg | Lys | His | Leu | Gly | Ser | Glu | Ala | Val |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Glu | Val | Trp | Met | Gly | Leu | Asn | Gln | Leu | Asp | Glu | Asp | Ala | Gly | Trp | Gln |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Trp | Ser | Asp | Arg | Thr | Pro | Leu | Asn | Tyr | Leu | Asn | Trp | Lys | Pro | Glu | Ile |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Asn | Phe | Glu | Pro | Phe | Val | Glu | Tyr | His | Cys | Gly | Thr | Phe | Asn | Ala | Phe |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Met | Pro | Lys | Ala | Trp | Lys | Ser | Arg | Asp | Cys | Glu | Ser | Thr | Leu | Pro | Tyr |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Val | Cys | Lys | Lys | Tyr | Leu | Asn | Pro | Thr | Asp | His | Gly | Val | Val | Glu | Lys |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Asp | Ala | Trp | Lys | Tyr | Tyr | Ala | Thr | His | Cys | Glu | Pro | Gly | Trp | Asn | Pro |
| | 370 | | | | | 375 | | | | | 380 | | | | |
| His | Asn | Arg | Asn | Cys | Tyr | Lys | Leu | Gln | Lys | Glu | Lys | Lys | Thr | Trp | Asn |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 385 | | | | | 390 | | | | | 395 | | | | 400 |
| Glu | Ala | Leu | Gln | Ser | Cys | Gln | Ser | Asn | Asn | Ser | Val | Leu | Thr | Asp |
| | | | | 405 | | | | | 410 | | | | | 415 |
| Thr | Ser | Leu | Ala | Glu | Val | Glu | Phe | Leu | Val | Thr | Leu | Leu | Gly | Asp |
| | | | 420 | | | | | 425 | | | | | 430 | |
| Asn | Ala | Ser | Glu | Thr | Trp | Ile | Gly | Leu | Ser | Ser | His | Lys | Ile | Pro |
| | | 435 | | | | | 440 | | | | | 445 | | Val |
| Ser | Phe | Glu | Trp | Ser | Asn | Gly | Ser | Ser | Val | Thr | Phe | Thr | Asn | Trp |
| | 450 | | | | | 455 | | | | | 460 | | | His |
| Thr | Leu | Glu | Pro | His | Ile | Phe | Pro | Asn | Arg | Ser | Gln | Leu | Cys | Val |
| 465 | | | | | 470 | | | | | 475 | | | | 480 |
| Ala | Glu | Gln | Ser | Glu | Gly | His | Trp | Lys | Val | Lys | Asn | Cys | Glu | Glu |
| | | | | 485 | | | | | 490 | | | | | 495 |
| Leu | Phe | Tyr | Leu | Cys | Lys | Lys | Thr | His | Leu | Val | Leu | Ser | Asp | Thr |
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| Ser | Gly | Cys | Gln | Lys | Gly | Trp | Glu | Arg | His | Gly | Lys | Phe | Cys | Tyr |
| | | 515 | | | | | 520 | | | | | 525 | | Lys |
| Ile | Asp | Thr | Val | Leu | Arg | Ser | Phe | Asp | His | Ala | Ser | Ser | Gly | Tyr |
| | 530 | | | | | 535 | | | | | 540 | | | Tyr |
| Cys | Pro | Pro | Ala | Leu | Ile | Thr | Ile | Thr | Ser | Arg | Phe | Glu | Gln | Ala |
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| Ile | Thr | Ser | Leu | Ile | Ser | Ser | Val | Val | Lys | Thr | Lys | Asp | Thr | Tyr |
| | | | 565 | | | | | | 570 | | | | | 575 |
| Trp | Ile | Ala | Leu | Gln | Asp | Gln | Asn | Asn | Thr | Gly | Glu | Tyr | Thr | Trp |
| | | | 580 | | | | | 585 | | | | | 590 | Lys |
| Thr | Ala | Gly | Gln | Gln | Leu | Glu | Pro | Val | Lys | Tyr | Thr | His | Trp | Asn |
| | | 595 | | | | | 600 | | | | | 605 | | Thr |
| Arg | Gln | Pro | Arg | Tyr | Ser | Gly | Gly | Cys | Val | Val | Met | Arg | Gly | Arg |
| | 610 | | | | | 615 | | | | | 620 | | | Ser |
| His | Pro | Gly | Arg | Trp | Glu | Val | Arg | Asp | Cys | Arg | His | Phe | Lys | Ala |
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| Ser | Leu | Cys | Lys | Gln | Pro | Val | Glu | Asn | Arg | Glu | Lys | Thr | Lys | Gln |
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| Glu | Gly | Trp | Pro | Phe | His | Pro | Cys | Tyr | Leu | Asp | Trp | Glu | Ser | Glu |
| | | | 660 | | | | | 665 | | | | | 670 | Pro |
| Gly | Leu | Ala | Ser | Cys | Phe | Lys | Val | Phe | His | Ser | Glu | Lys | Val | Leu |
| | | 675 | | | | | 680 | | | | | 685 | | Met |
| Lys | Arg | Thr | Trp | Arg | Gln | Ala | Glu | Glu | Phe | Cys | Glu | Glu | Phe | Gly |
| | 690 | | | | | 695 | | | | | 700 | | | Ala |
| His | Leu | Ala | Ser | Phe | Ala | His | Ile | Glu | Glu | Glu | Asn | Phe | Val | Asn |
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| Leu | Leu | His | Ser | Lys | Phe | Asn | Arg | Thr | Glu | Glu | Arg | Gln | Phe | Trp |
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| Glu | Asp | Ala | Arg | Asn | Cys | Ala | Val | Tyr | Lys | Ala | Asn | Lys | Thr | Leu |
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| Pro | Ser | Tyr | Cys | Gly | Ser | Lys | Arg | Glu | Trp | Ile | Cys | Lys | Ile | Pro |
| 785 | | | | | 790 | | | | | 795 | | | | 800 |
| Asp | Val | Arg | Pro | Lys | Val | Pro | Pro | Trp | Tyr | Gln | Tyr | Asp | Ala | Pro |
| | | | | 805 | | | | | 810 | | | | | 815 |
| Leu | Phe | Tyr | Gln | Asp | Ala | Glu | Tyr | Leu | Phe | His | Ile | Ser | Ala | Ser |
| | | | 820 | | | | | 825 | | | | | 830 | Glu |
| Trp | Ser | Ser | Phe | Glu | Phe | Val | Cys | Gly | Trp | Leu | Arg | Ser | Asp | Ile |
| | | 835 | | | | | 840 | | | | | 845 | | Leu |

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| Thr | Ile | His | Ser | Ala | His | Glu | Gln | Glu | Phe | Ile | His | Ser | Lys | Ile | Arg | 850 | 855 | 860 |
| Ala | Leu | Ser | Lys | Tyr | Gly | Val | Asn | Trp | Trp | Ile | Gly | Leu | Arg | Glu | Glu | 865 | 870 | 875 |
| Arg | Ala | Ser | Asp | Glu | Phe | Arg | Trp | Arg | Asp | Gly | Ser | Pro | Val | Ile | Tyr | 885 | 890 | 895 |
| Gln | Asn | Trp | Asp | Lys | Gly | Lys | Glu | Arg | Ser | Met | Gly | Leu | Asn | Glu | Ser | 900 | 905 | 910 |
| Gln | Arg | Cys | Gly | Phe | Ile | Ser | Ser | Ile | Thr | Gly | Leu | Trp | Ala | Ser | Glu | 915 | 920 | 925 |
| Glu | Cys | Ser | Ile | Ser | Met | Pro | Ser | Ile | Cys | Lys | Arg | Lys | Lys | Val | Trp | 930 | 935 | 940 |
| Val | Ile | Glu | Lys | Lys | Lys | Asp | Ile | Pro | Lys | Gln | His | Gly | Thr | Cys | Pro | 945 | 950 | 955 |
| Lys | Gly | Trp | Leu | Tyr | Phe | Asp | Tyr | Lys | Cys | Leu | Leu | Leu | Lys | Ile | Pro | 965 | 970 | 975 |
| Glu | Gly | Pro | Ser | Asp | Trp | Lys | Asn | Trp | Thr | Ser | Ala | Gln | Asp | Phe | Cys | 980 | 985 | 990 |
| Val | Glu | Glu | Gly | Gly | Thr | Leu | Val | Ala | Ile | Glu | Asn | Glu | Val | Glu | Gln | 995 | 1000 | 1005 |
| Ala | Phe | Ile | Thr | Met | Asn | Leu | Phe | Gly | His | Thr | Thr | Asn | Val | Trp | Ile | 1010 | 1015 | 1020 |
| Gly | Leu | Gln | Asp | Asp | Asp | Tyr | Glu | Lys | Trp | Leu | Asn | Gly | Arg | Pro | Val | 1025 | 1030 | 1035 |
| Ser | Tyr | Ser | Asn | Trp | Ser | Pro | Phe | Asp | Thr | Lys | Asn | Ile | Pro | Asn | His | 1045 | 1050 | 1055 |
| Asn | Thr | Thr | Glu | Val | Gln | Lys | Arg | Ile | Pro | Leu | Cys | Gly | Leu | Leu | Ser | 1060 | 1065 | 1070 |
| Asn | Asn | Pro | Asn | Phe | His | Phe | Thr | Gly | Lys | Trp | Tyr | Phe | Asp | Cys | Arg | 1075 | 1080 | 1085 |
| Glu | Gly | Tyr | Gly | Phe | Val | Cys | Glu | Lys | Met | Gln | Asp | Ala | Ser | Gly | His | 1090 | 1095 | 1100 |
| Ser | Ile | Asn | Thr | Ser | Asp | Met | Tyr | Pro | Ile | Pro | Asn | Thr | Leu | Glu | Tyr | 1105 | 1110 | 1115 |
| Gly | Asn | Arg | Thr | Tyr | Lys | Ile | Ile | Asn | Ala | Asn | Met | Thr | Trp | Tyr | Thr | 1125 | 1130 | 1135 |
| Ala | Leu | Lys | Thr | Cys | Leu | Met | His | Gly | Ala | Glu | Leu | Ala | Ser | Ile | Thr | 1140 | 1145 | 1150 |
| Asp | Gln | Tyr | His | Gln | Ser | Phe | Leu | Thr | Val | Ile | Leu | Asn | Arg | Val | Gly | 1155 | 1160 | 1165 |
| Tyr | Ala | His | Trp | Ile | Gly | Leu | Phe | Thr | Glu | Asp | Asn | Gly | Leu | Ser | Phe | 1170 | 1175 | 1180 |
| Asp | Trp | Ser | Asp | Gly | Thr | Lys | Ser | Ser | Phe | Thr | Phe | Trp | Lys | Asp | Asp | 1185 | 1190 | 1195 |
| Glu | Ser | Ser | Phe | Leu | Gly | Asp | Cys | Val | Phe | Ala | Asp | Thr | Ser | Gly | Arg | 1205 | 1210 | 1215 |
| Trp | Ser | Ser | Thr | Ala | Cys | Glu | Ser | Tyr | Leu | Gln | Gly | Ala | Ile | Cys | Gln | 1220 | 1225 | 1230 |
| Val | Pro | Thr | Glu | Thr | Arg | Leu | Ser | Gly | Arg | Leu | Glu | Leu | Cys | Ser | Glu | 1235 | 1240 | 1245 |
| Thr | Ser | Ile | Pro | Trp | Ile | Lys | Phe | Lys | Ser | Asn | Cys | Tyr | Ser | Phe | Ser | 1250 | 1255 | 1260 |
| Thr | Val | Leu | Glu | Ser | Thr | Ser | Phe | Glu | Ala | Ala | His | Glu | Phe | Cys | Lys | 1265 | 1270 | 1275 |
| Lys | Lys | Gly | Ser | Asn | Leu | Leu | Thr | Ile | Lys | Asp | Glu | Ala | Glu | Asn | Ser | 1285 | 1290 | 1295 |
| Phe | Leu | Leu | Glu | Glu | Leu | Leu | Ala | Phe | Arg | Ser | Ser | Val | Gln | Met | Ile | | | |

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| | | | | 1300 | | | | | | 1305 | | | | | 1310 | | | | |
| Trp | Leu | Asn | Ala | Gln | Phe | Asp | Gly | Asp | Asn | Glu | Thr | Ile | Lys | Trp | Phe | | | | |
| | | 1315 | | | | | | 1320 | | | | | 1325 | | | | | | |
| Asp | Gly | Thr | Pro | Thr | Asp | Gln | Ser | Asn | Trp | Gly | Ile | Arg | Lys | Pro | Glu | | | | |
| | 1330 | | | | | 1335 | | | | | 1340 | | | | | | | | |
| Val | Tyr | His | Phe | Lys | Pro | His | Leu | Cys | Val | Ala | Leu | Arg | Ile | Pro | Glu | | | | |
| 1345 | | | | | 1350 | | | | | 1355 | | | | | 1360 | | | | |
| Gly | Val | Trp | Gln | Leu | Ser | Ser | Cys | Gln | Asp | Lys | Lys | Gly | Phe | Ile | Cys | | | | |
| | | | | 1365 | | | | | 1370 | | | | | 1375 | | | | | |
| Lys | Met | Glu | Ala | Asp | Ile | His | Thr | Val | Lys | Lys | His | Pro | Gly | Lys | Gly | | | | |
| | | 1380 | | | | | | 1385 | | | | | 1390 | | | | | | |
| Pro | Ser | His | Ser | Val | Ile | Pro | Leu | Thr | Val | Ala | Leu | Thr | Leu | Leu | Val | | | | |
| | 1395 | | | | | | 1400 | | | | | 1405 | | | | | | | |
| Ile | Leu | Ala | Ile | Ser | Thr | Leu | Ser | Phe | Cys | Met | Tyr | Lys | His | Ser | His | | | | |
| | 1410 | | | | | 1415 | | | | | 1420 | | | | | | | | |
| Ile | Ile | Phe | Gly | Arg | Leu | Ala | Gln | Phe | Arg | Asn | Pro | Tyr | Tyr | Pro | Ser | | | | |
| 1425 | | | | 1430 | | | | | 1435 | | | | | 1440 | | | | | |
| Ala | Asn | Phe | Ser | Thr | Val | His | Leu | Glu | Glu | Asn | Ile | Leu | Ile | Ser | Asp | | | | |
| | | | 1445 | | | | | 1450 | | | | 1455 | | | | | | | |
| Leu | Glu | Lys | Asn | Asp | Gln | | | | | | | | | | | | | | |
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<210> 5

<211> 1457

<212> PRT

<213> homo sapiens

<220>

<223> macrophage mannose receptor

<400> 5

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Met | Arg | Leu | Pro | Leu | Leu | Leu | Val | Phe | Ala | Ser | Val | Ile | Pro | Gly | Ala | | | | |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | | | | | |
| Val | Leu | Leu | Leu | Asp | Thr | Arg | Gln | Phe | Leu | Ile | Tyr | Asn | Glu | Asp | His | | | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | | | |
| Lys | Arg | Cys | Val | Asp | Ala | Val | Ser | Pro | Ser | Ala | Val | Gln | Thr | Ala | Ala | | | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | | | |
| Cys | Asn | Gln | Asp | Ala | Glu | Ser | Gln | Lys | Phe | Arg | Trp | Val | Ser | Glu | Ser | | | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | | | |
| Gln | Ile | Met | Ser | Val | Ala | Phe | Lys | Leu | Cys | Leu | Gly | Val | Pro | Ser | Lys | | | | |
| 65 | | | | 70 | | | | 75 | | | | | | 80 | | | | | |
| Thr | Asp | Trp | Val | Ala | Ile | Thr | Leu | Tyr | Ala | Cys | Asp | Ser | Lys | Ser | Glu | | | | |
| | | | 85 | | | | | 90 | | | | | 95 | | | | | | |
| Phe | Gln | Lys | Trp | Glu | Cys | Lys | Asn | Asp | Thr | Leu | Leu | Gly | Ile | Lys | Gly | | | | |
| | | 100 | | | | | | 105 | | | | | 110 | | | | | | |
| Glu | Asp | Leu | Phe | Phe | Asn | Tyr | Gly | Asn | Arg | Gln | Glu | Lys | Asn | Ile | Met | | | | |
| | 115 | | | | | | 120 | | | | | 125 | | | | | | | |
| Leu | Tyr | Lys | Gly | Ser | Gly | Leu | Trp | Ser | Arg | Trp | Lys | Ile | Tyr | Gly | Thr | | | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | | | |
| Thr | Asp | Asn | Leu | Cys | Ser | Arg | Gly | Tyr | Glu | Ala | Met | Tyr | Thr | Leu | Leu | | | | |
| 145 | | | | 150 | | | | | | 155 | | | | 160 | | | | | |
| Gly | Asn | Ala | Asn | Gly | Ala | Thr | Cys | Ala | Phe | Pro | Phe | Lys | Phe | Glu | Asn | | | | |
| | | | 165 | | | | | 170 | | | | | 175 | | | | | | |
| Lys | Trp | Tyr | Ala | Asp | Cys | Thr | Ser | Ala | Gly | Arg | Ser | Asp | Gly | Trp | Leu | | | | |
| | | 180 | | | | | | 185 | | | | 190 | | | | | | | |
| Trp | Cys | Gly | Thr | Thr | Thr | Asp | Tyr | Asp | Thr | Asp | Lys | Leu | Phe | Gly | Tyr | | | | |

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Cys | Pro | Leu | Lys | Phe | Glu | Gly | Ser | Glu | Ser | Leu | Trp | Asn | Lys | Asp | Pro | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Leu | Thr | Ser | Val | Ser | Tyr | Gln | Ile | Asn | Ser | Lys | Ser | Ala | Leu | Thr | Trp | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| His | Gln | Ala | Arg | Lys | Ser | Cys | Gln | Gln | Gln | Asn | Ala | Glu | Leu | Leu | Ser | |
| | | | | 245 | | | | | | 250 | | | | | 255 | |
| Ile | Thr | Glu | Ile | His | Glu | Gln | Thr | Tyr | Leu | Thr | Gly | Leu | Thr | Ser | Ser | |
| | | | 260 | | | | | | 265 | | | | | | 270 | |
| Leu | Thr | Ser | Gly | Leu | Trp | Ile | Gly | Leu | Asn | Ser | Leu | Ser | Phe | Asn | Ser | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Gly | Trp | Gln | Trp | Ser | Asp | Arg | Ser | Pro | Phe | Arg | Tyr | Leu | Asn | Trp | Leu | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Pro | Gly | Ser | Pro | Ser | Ala | Glu | Pro | Gly | Lys | Ser | Cys | Val | Ser | Leu | Asn | |
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| Pro | Gly | Lys | Asn | Ala | Lys | Trp | Glu | Asn | Leu | Glu | Cys | Val | Gln | Lys | Leu | |
| | | | | 325 | | | | | | 330 | | | | | 335 | |
| Gly | Tyr | Ile | Cys | Lys | Lys | Gly | Asn | Thr | Thr | Leu | Asn | Ser | Phe | Val | Ile | |
| | | | 340 | | | | | | 345 | | | | | 350 | | |
| Pro | Ser | Glu | Ser | Asp | Val | Pro | Thr | His | Cys | Pro | Ser | Gln | Trp | Trp | Pro | |
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| Tyr | Ala | Gly | His | Cys | Tyr | Lys | Ile | His | Arg | Asp | Glu | Lys | Lys | Ile | Gln | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Arg | Asp | Ala | Leu | Thr | Thr | Cys | Arg | Lys | Glu | Gly | Gly | Asp | Leu | Thr | Ser | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| Ile | His | Thr | Ile | Glu | Glu | Leu | Asp | Phe | Ile | Ile | Ser | Gln | Leu | Gly | Tyr | |
| | | | | 405 | | | | | 410 | | | | | 415 | | |
| Glu | Pro | Asn | Asp | Glu | Leu | Trp | Ile | Gly | Leu | Asn | Asp | Ile | Lys | Ile | Gln | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
| Met | Tyr | Phe | Glu | Trp | Ser | Asp | Gly | Thr | Pro | Val | Thr | Phe | Thr | Lys | Trp | |
| | | 435 | | | | | 440 | | | | | 445 | | | | |
| Leu | Arg | Gly | Glu | Pro | Ser | His | Glu | Asn | Asn | Arg | Gln | Glu | Asp | Cys | Val | |
| | 450 | | | | | 455 | | | | | 460 | | | | | |
| Val | Met | Lys | Gly | Lys | Asp | Gly | Tyr | Trp | Ala | Asp | Arg | Gly | Cys | Glu | Trp | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | |
| Pro | Leu | Gly | Tyr | Ile | Cys | Lys | Met | Lys | Ser | Arg | Ser | Gln | Gly | Pro | Glu | |
| | | | | 485 | | | | | | 490 | | | | | 495 | |
| Ile | Val | Glu | Val | Glu | Lys | Gly | Cys | Arg | Lys | Gly | Trp | Lys | Lys | His | His | |
| | | | 500 | | | | | | 505 | | | | | 510 | | |
| Phe | Tyr | Cys | Tyr | Met | Ile | Gly | His | Thr | Leu | Ser | Thr | Phe | Ala | Glu | Ala | |
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| Asn | Gln | Thr | Cys | Asn | Asn | Glu | Asn | Ala | Tyr | Leu | Thr | Thr | Ile | Glu | Asp | |
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| Arg | Tyr | Glu | Gln | Ala | Phe | Leu | Thr | Ser | Phe | Val | Gly | Leu | Arg | Pro | Glu | |
| 545 | | | | | 550 | | | | | 555 | | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|
| Ser | Leu | Cys | Phe | Lys | Leu | Tyr | Ala | Lys | Gly | Lys | His | Glu | Lys | Lys | Thr |
| | | | 660 | | | | | 665 | | | | | 670 | | |
| Trp | Phe | Glu | Ser | Arg | Asp | Phe | Cys | Arg | Ala | Leu | Gly | Gly | Asp | Leu | Ala |
| | | 675 | | | | | 680 | | | | | 685 | | | |
| Ser | Ile | Asn | Asn | Lys | Glu | Glu | Gln | Gln | Thr | Ile | Trp | Arg | Leu | Ile | Thr |
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| Ala | Ser | Gly | Ser | Tyr | His | Lys | Leu | Phe | Trp | Leu | Gly | Leu | Thr | Tyr | Gly |
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| | | 755 | | | | | 760 | | | | | 765 | | | |
| Cys | Glu | His | Leu | Asn | Asn | Trp | Ile | Cys | Gln | Ile | Gln | Lys | Gly | Gln | Thr |
| | 770 | | | | | 775 | | | | | 780 | | | | |
| Pro | Lys | Pro | Glu | Pro | Thr | Pro | Ala | Pro | Gln | Asp | Asn | Pro | Pro | Val | Thr |
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| Glu | Asp | Gly | Trp | Val | Ile | Tyr | Lys | Asp | Tyr | Gln | Tyr | Tyr | Phe | Ser | Lys |
| | | | | 805 | | | | | 810 | | | | | 815 | |
| Glu | Lys | Glu | Thr | Met | Asp | Asn | Ala | Arg | Ala | Phe | Cys | Lys | Arg | Asn | Phe |
| | | | 820 | | | | | 825 | | | | | 830 | | |
| Gly | Asp | Leu | Val | Ser | Ile | Gln | Ser | Glu | Ser | Glu | Lys | Lys | Phe | Leu | Trp |
| | | 835 | | | | | 840 | | | | | 845 | | | |
| Lys | Tyr | Val | Asn | Arg | Asn | Asp | Ala | Gln | Ser | Ala | Tyr | Phe | Ile | Gly | Leu |
| | 850 | | | | | 855 | | | | | 860 | | | | |
| Leu | Ile | Ser | Leu | Asp | Lys | Lys | Phe | Ala | Trp | Met | Asp | Gly | Ser | Lys | Val |
| 865 | | | | | 870 | | | | | 875 | | | | | 880 |
| Asp | Tyr | Val | Ser | Trp | Ala | Thr | Gly | Glu | Pro | Asn | Phe | Ala | Asn | Glu | Asp |
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| Glu | Asn | Cys | Val | Thr | Met | Tyr | Ser | Asn | Ser | Gly | Phe | Trp | Asn | Asp | Ile |
| | | | 900 | | | | | 905 | | | | | 910 | | |
| Asn | Cys | Gly | Tyr | Pro | Asn | Ala | Phe | Ile | Cys | Gln | Arg | His | Asn | Ser | Ser |
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| Ile | Asn | Ala | Thr | Thr | Val | Met | Pro | Thr | Met | Pro | Ser | Val | Pro | Ser | Gly |
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| Cys | Lys | Glu | Gly | Trp | Asn | Phe | Tyr | Ser | Asn | Lys | Cys | Phe | Lys | Ile | Phe |
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| Gly | Phe | Met | Glu | Glu | Arg | Lys | Asn | Trp | Gln | Glu | Ala | Arg | Lys | Ala | |
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| Gln | Ala | Phe | Leu | Thr | Tyr | His | Met | Lys | Asp | Ser | Thr | Phe | Ser | Ala | Trp |
| | | 995 | | | | | 1000 | | | | | | 1005 | | |
| Thr | Gly | Leu | | | | | | | | | | | | | |

| | | | | | | |
|---|------|------|------|------|------|------|
| 1105 | | 1110 | | 1115 | | 1120 |
| Thr Tyr Cys Lys Leu His Asn Ser Leu Ile Ala Ser Ile Leu Asp Pro | | | | | | |
| | 1125 | | 1130 | | 1135 | |
| Tyr Ser Asn Ala Phe Ala Trp Leu Gln Met Glu Thr Ser Asn Glu Arg | | | | | | |
| | 1140 | | 1145 | | 1150 | |
| Val Trp Ile Ala Leu Asn Ser Asn Leu Thr Asp Asn Gln Tyr Thr Trp | | | | | | |
| | 1155 | | 1160 | | 1165 | |
| Thr Asp Lys Trp Arg Val Arg Tyr Thr Asn Trp Ala Ala Asp Glu Pro | | | | | | |
| | 1170 | | 1175 | | 1180 | |
| Lys Leu Lys Ser Ala Cys Val Tyr Leu Asp Leu Asp Gly Tyr Trp Lys | | | | | | |
| 1185 | | 1190 | | 1195 | | 1200 |
| Thr Ala His Cys Asn Glu Ser Phe Tyr Phe Leu Cys Lys Arg Ser Asp | | | | | | |
| | 1205 | | 1210 | | 1215 | |
| Glu Ile Pro Ala Thr Glu Pro Pro Gln Leu Pro Gly Arg Cys Pro Glu | | | | | | |
| | 1220 | | 1225 | | 1230 | |
| Ser Asp His Thr Ala Trp Glu Ile Pro Phe His Gly His Cys Tyr Tyr | | | | | | |
| | 1235 | | 1240 | | 1245 | |
| Ile Glu Ser Ser Tyr Thr Arg Asn Trp Gly Gln Ala Ser Leu Glu Cys | | | | | | |
| | 1250 | | 1255 | | 1260 | |
| Leu Arg Met Gly Ser Ser Leu Val Ser Ile Glu Ser Ala Ala Glu Ser | | | | | | |
| 1265 | | 1270 | | 1275 | | 1280 |
| Ser Phe Leu Ser Tyr Arg Val Glu Pro Leu Lys Ser Lys Thr Asn Phe | | | | | | |
| | 1285 | | 1290 | | 1295 | |
| Trp Ile Gly Leu Phe Arg Asn Val Glu Gly Thr Trp Leu Trp Ile Asn | | | | | | |
| | 1300 | | 1305 | | 1310 | |
| Asn Ser Pro Val Ser Phe Val Asn Trp Asn Thr Gly Asp Pro Ser Gly | | | | | | |
| | 1315 | | 1320 | | 1325 | |
| Glu Arg Asn Asp Cys Val Ala Leu His Ala Ser Ser Gly Phe Trp Ser | | | | | | |
| | 1330 | | 1335 | | 1340 | |
| Asn Ile His Cys Ser Ser Tyr Lys Gly Tyr Ile Cys Lys Arg Pro Lys | | | | | | |
| 1345 | | 1350 | | 1355 | | 1360 |
| Ile Ile Asp Ala Lys Pro Thr His Glu Leu Leu Thr Thr Lys Ala Asp | | | | | | |
| | 1365 | | 1370 | | 1375 | |
| Thr Arg Lys Met Asp Pro Ser Lys Pro Ser Ser Asn Val Ala Gly Val | | | | | | |
| | 1380 | | 1385 | | 1390 | |
| Val Ile Ile Val Ile Leu Leu Ile Leu Thr Gly Ala Gly Leu Ala Ala | | | | | | |
| | 1395 | | 1400 | | 1405 | |
| Tyr Phe Phe Tyr Lys Lys Arg Arg Val His Leu Pro Gln Glu Gly Ala | | | | | | |
| | 1410 | | 1415 | | 1420 | |
| Phe Glu Asn Thr Leu Tyr Phe Asn Ser Gln Ser Ser Pro Gly Thr Ser | | | | | | |
| 1425 | | 1430 | | 1435 | | 1440 |
| Asp Met Lys Asp Leu Val Gly Asn Ile Glu Gln Asn Glu His Ser Val | | | | | | |
| | 1445 | | 1450 | | 1455 | |
| Ile | | | | | | |

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<211> 30

<212> PRT

<213> mus musculus

<220>

<223> C terminal DEC-205

<400> 6

Arg Ser His Ile Arg Trp Thr Gly Phe Ser Ser Val Arg Tyr Glu His

<213> homo sapiens

<220>

<221> VARIANT

<222> 1, 3, 4

<223> Xaa at position 1 is Glu or Gln; Xaa at position 3 and 4 are Asp or Asn.

<400> 10

Xaa Pro Xaa Xaa

1

<210> 11

<211> 5

<212> PRT

<213> homo sapiens

<220>

<221> VARIANT

<222> 1, 2, 4, 5

<223> Xaa at position 1 is aromatic; Xaa at position 2 and 4 are aliphatic; Xaa at position 5 is any of Asp, Asn, Glu, or Gln.

<400> 11

Xaa Xaa Gly Xaa Xaa

1

5

<210> 12

<211> 5

<212> PRT

<213> homo sapiens

<220>

<221> VARIANT

<222> 2, 4, 5

<223> Xaa at position 5 is aliphatic or aromatic; Xaa at position 4 is aliphatic; Xaa at position 2 is any of Asp, Asn, Glu, or Gln.

<400> 12

Glu Xaa Cys Xaa Xaa

1

5

<210> 13

<211> 19

<212> PRT

<213> mus musculus

<400> 13

Ser Glu Ser Ser Gly Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr

1

5

10

15

Gly Lys Cys